

WHAT IS CLAIMED IS:

1. A method for data processing comprising:
- receiving a web page request, the web page request
requesting a first web page, the first web page being
5 associated with an origin server;
- associating the first web page with a first node in
a prefetch graph;
- associating a respective second node in the prefetch
graph with each of a plurality of second web pages
10 associated with the first web page;
- generating at least one link in the prefetch graph
between the first node and each of the second nodes, each
link having a respective associated transaction weight;
- selecting at least one of the second web pages to
15 retrieve based on the graph; and
- storing the selected second web pages at a cache
server.
2. The method for data processing according to
20 Claim 1, wherein each link is associated with a hypertext
link between each of the second web pages and the first
web page.
3. The method for data processing according to
25 Claim 1 and further comprising:
- receiving a selection of one of the hypertext links
associated with the first web page; and
- updating the transaction weight associated with the
link associated with the selected hypertext link.

30

4. The method for data processing according to Claim 3, wherein updating the transaction weight comprises changing the transaction weight based on criteria associated with the origin server.

5

5. The method for data processing according to Claim 1, wherein each link further has a respective associated user weight.

10

6. The method for data processing according to Claim 5, wherein the web page request has an associated priority and further comprising modifying the priority based on the user weight.

15

7. The method for data processing according to Claim 5 and further comprising:

receiving a selection of one of the hypertext links associated with the first web page; and

20

updating the user weight associated with the link associated with the selected hypertext link.

25

8. The method for data processing according to Claim 7, wherein updating the user weight comprises changing the user weight based on criteria associated with the origin server.

30

9. The method for data processing according to Claim 7, wherein updating the user weight comprises increasing the user weight to indicate an increased value associated with the link because the hypertext link associated with link has been selected.

10. The method for data processing according to Claim 1 and further comprising storing the prefetch graph at the cache server.

5 11. The method for data processing according to Claim 1, wherein selecting the second web page comprises:
 comparing a plurality of the transaction weights;
 and
 selecting the second web page associated with the
10 highest valued of the transaction weights.

12. The method for data processing according to Claim 11, wherein the highest valued of the transaction weights comprises the transaction weight having the
15 largest numerical value.

13. The method for data processing according to Claim 11, wherein comparing the transaction weights further comprises determining which of the transaction
20 weights exceeds a prefetch threshold associated with the cache server.

14. The method for data processing according to Claim 13 and further comprising updating the prefetch
25 threshold based on a processing load associated with the cache server.

15. The method for data processing according to Claim 13 and further comprising updating the prefetch
30 threshold based on a processing load associated with the origin server.

16. A method for data processing comprising:
receiving a web page request for a first web page,
the web page request having an associated origination web
page;

5 associating an origination node in a prefetch graph
with the origination web page;

associating a first node in the prefetch graph with
the first web page, the first web page being associated
with the origination web page;

10 updating a first link between the origination
origination node and the first node, the first link
having an associated first user weight and an associated
first transaction weight;

15 associating a second node in the prefetch graph with
each of a plurality of second web pages associated with
the first web page;

20 generating a respective second link in the prefetch
graph between the first node and each of the second
nodes, each second link having an associated second user
weight and an associated second transaction weight;

selecting a second web page to retrieve based on the
transaction weight; and

storing the second web page at a cache server.

25 17. The method for data processing according to
Claim 16, wherein updating the first link comprises
updating the first transaction weight.

30 18. The method for data processing according to
Claim 16, wherein updating the first link comprises
updating the first user weight.

19. The method for data processing according to Claim 16, wherein selecting the second web page comprises determining whether the selected second web page has an associated second transaction weight greater than a
5 prefetch threshold associated with the cache server.

20. The method for data processing according to Claim 19 and further comprising updating the prefetch threshold based on a processing load associated with the
10 cache server.

21. The method for data processing according to Claim 16, wherein the first and second links respectively indicate hypertext links.
15

22. The method for data processing according to Claim 16, wherein selecting the second page comprises:
15

comparing a plurality of the second transaction weights; and
20

selecting the second web page associated with the second link having the highest valued of the transaction weights.
20

23. The method for data processing according to Claim 22, wherein the highest valued of the transaction weights comprises the transaction weight having the largest numerical value.
25

24. A system for data processing comprising:

a memory coupled to a processor;

an application stored in the memory and operable to:

5 receive a web page request for a first web
page, the web page request having an associated
origination web page;

associate an origination node in a prefetch
graph with the origination web page;

10 associate a first node in the prefetch graph
with the first web page, the first web page being
associated with the origination web page;

associate a first link in the prefetch graph
with a hypertext link from the origination web page to
the first web page;

15 associate a transaction weight with the first
link based on prefetch criteria associated with an origin
server associated with the prefetch graph;

associate a user weight with the first link based on
the prefetch criteria;

20 retrieve the first web page; and
store the first web page.